

Ogulei, David

From: Ogulei, David
Sent: Wednesday, March 26, 2014 2:27 PM
To: Woolums, Jane
Cc: Ogulei, David
Subject: RE: Phone Call Record 3/26/14 - Date corrected

Call Record

Caller: David Ogulei
Date of call: 3/26/14
Time of call: 1:49 pm

Purpose of Call: To obtain updated information on the commercial availability of the multi-metals CEMS.

Call with: Krag Petterson
Phone no. (503) 670-8335
Company: Cooper Environmental Services, Portland, Oregon

- 1) Any additional updates on the commercial availability of the multi-metals CEMS that you would like to add to Mr. Cooper's?
 - A Chinese company (Sale Hero) has purchased a majority stake of Cooper Environmental Services
 - Cooper Environmental will be shipping one stack unit in April/early May to be installed at a Chevron facility in Nigeria. Expect the unit to begin operating in mid-summer.
 - Currently working on a special project for SCAQMD (2 secondary lead smelters). SCAQMD will be renting the units for a period of 10 months starting around December 2014. Plan to do side by side method 29 testing. Also hope to deploy the Quantitative Aerosol Generator (QAG) at this location at some point while the unit is deployed there. SCAQMD contact is: phillip fine 310-486-4295. Email: pfine@aqmd.gov.
 - No stack unit is currently running at a facility.
 - Currently have a number of ambient units in China, Australia and other countries.
- 2) What would be the approximate cost of installing and testing the three units? How much would it be for one unit? Do you have a sample invoice you can share with us?
 - Each unit's purchase cost is about \$250k. Approx. \$900k ballpark total for 3 units including installation and testing. Would need to visit the facility and do an appraisal of what is needed.
 - Operating costs primarily come from filter tape. For continuous operation (15 min samples), filter tape would cost \$780 per roll per week (\$41k per year) per unit. Total operating cost is approximately \$50k per year per unit.
 - Krag will look into possibly sharing a copy of the quote they recently did for Chevron (\$350k project) but that project included a number of spare parts that might not be needed for the average project.
 - Krag will share the rental quote estimate for the SCAQMD. That quote is public information.

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